

## **ABSTRACT**

Methods and apparatus for constructing an eccentric shaft, characterized by a central shaft constructed of forged material and including one or more relatively small diameter eccentric protrusions to which are attached larger diameter discs shrink-fitted to the cylinder and suitable for interfacing with roller bearings. The ends of the central shaft are fitted with sleeves for interfacing with bearings that allow the shaft to rotate and preferably having one or more circumferential grooves for supplying a hydraulic assist in removing bearings from the shaft. The shaft also preferably has at least one concentric disc suitable for attaching to a gear through which power can be applied to rotate the shaft.